

What is claimed is:

1. A method for permanently dyeing hair which comprises subjecting said hair to a number of treatments, having a set time interval between each two consecutive such treatments, wherein each treatment comprises steps a.) And b.) Below:

a.) Contacting said hair, for a period of about 5 seconds to about 5 minutes with a recently made mixture of:

i.) an alkaline composition comprising a dye intermediate in a shampoo base or in a conditioner base; and

ii.) an acidic composition comprising an oxidizing compound in a shampoo base or in a conditioner base;

b.) rinsing said mixture from said hair with water;

with the proviso that when a conditioner base is present in a.) i.) above, an independently selected conditioner base is also present in a.) ii.) above; and when a shampoo base is present in a.) i.) above, an independently selected shampoo base is also present in a.) ii.) above;

and wherein said number of treatments is between about 2 to about 30; and wherein said set time interval between each two consecutive treatments is between about 8 hours and 30 days.

2. A method according to claim 1, wherein said dye intermediate is selected from the group consisting of m-aminophenol, p-phenylene diamine, p-toluenediamine; p-phenylenediamine; 2-chloro-p-phenylenediamine; N-phenyl-p-phenylenediamine; N-2-methoxyethyl-p-phenylenediamine; N,N-bis-(hydroxyethyl)-p-phenylenediamine; 2-hydroxymethyl-p-phenylenediamine; 2-hydroxyethyl-p-phenylenediamine; 4, 4'-diaminodiphenylamine; 2,6-dimethyl-p-phenylenediamine; 2-isopropyl-p-phenylenediamine; N-(2-hydroxypropyl)-p-phenylenediamine; 2-

propyl-p- phenylenediamine; 1,3-N, N-bis-(2-hydroxyethyl)-N, N-bis (4-aminophenyl)- 2-propanol; 2-methyl-4-dimethylaminoaniline; p-aminophenol; p-methylaminophenol; 3-methyl-p-aminophenol; 2-hydroxymethyl-p-aminophenol; 2-methyl-p-aminophenol; 2-(2-hydroxyethylaminomethyl)-p-aminophenol; 2-methoxymethyl-p-aminophenol; and 5-aminosalicylic acid; catechol; pyrogallol; o-aminophenol; 2, 4-diaminophenol; 2,4,5-trihydroxytoluene; 1,2,4-trihydroxybenzene; 2- ethylamino-p-cresol; 2,3-dihydroxynaphthalene; 5-methyl-o-aminophenol; 6-methyl-o-aminophenol; and 2-amino-5-acetaminophenol; 2-methyl-1- naphthol; 1-acetoxy-2-methylnaphthalene; 1,7-dihydroxynaphthalene; resorcinol; 4-chlororesorcinol; 1-naphthol; 1,5-dihydroxynaphthalene; 2,7-dihydroxynaphthalene; 2-methylresorcinol; 1-hydroxy-6-aminonaphthalene- 3-sulfonic acid; thymol (2-isopropyl-5-methylphenol); 1,5-dihydroxy-1,2, 3,4-tetrahydronaphthalene; 2-chlororesorcinol; 2,3-dihydroxy-1,4- naphthoquinone; and 1-naphthol-4-sulfonic acid; m-phenylenediamine; 2-(2,4-diaminophenoxy)ethanol; N,N-bis(hydroxyethyl)-m-phenylenediamine; 2,6-diaminotoluene; N,N-bis(hydroxyethyl)-2,4-diaminophenetole; bis(2,4-diaminophenoxy)-1,3-propane; 1-hydroxyethyl-2,4-diaminobenzene; 2-amino- 4-hydroxyethylaminoanisole; aminoethoxy-2,4-diaminobenzene; 2,4-diaminophenoxyacetic acid; 4,6-bis(hydroxyethoxy)-m-phenylenediamine; 2,4-diamino-5-methylphenetole; 2,4-diamino-5-hydroxyethoxytoluene; 2,4- dimethoxy 1,3-diaminobenzene; and 2,6-bis(hydroxyethylamino) toluene; m-aminophenol; 2-hydroxy-4- carbamoylmethylaminotoluene; m-carbamoylmethylaminophenol; 6-hydroxybenzomorpholine; 2-hydroxy-4-aminotoluene; 2-hydroxy-4-hydroxyethylaminotoluene; 4,6-dichloro-m-aminophenol; 2-methyl-m-aminophenol; 2-chloro-6-methyl-m-aminophenol; 2-hydroxyethoxy-5- aminophenol; 2-chloro-5-trifluoroethylaminophenol; 4-chloro-6-methyl-m- aminophenol; N-cyclopentyl-3-aminophenol; N-hydroxyethyl-4-methoxy-2-methyl-m-aminophenol and 5-amino-4-methoxy-2-methylpheno; 2-dimethylamino-5-aminopyridine; 2,4,5,6-tetra-aminopyrimidine; 4,5-diamino-1-methylpyrazole; 1-phenyl-3- methyl-5-pyrazolone; 6-methoxy-8-aminoquinoline; 2,6-dihydroxy-4-methylpyridine; 5-hydroxy-1,4-benzodioxane; 3,4-methylenedioxyphenol; 4-hydroxyethylamino-1,2-

methylenedioxybenzene; 2,6-dihydroxy-3,4- dimethylpyridine; 5-chloro-2,3-dihydroxypyridine; 3,5-diamino-2,6- dimethoxypyridine; 2-hydroxyethylamino-6-methoxy-3-aminopyridine; 3,4- methylenedioxyaniline; 2,6-bis-hydroxyethoxy-3,5-diaminopyridine; 4- hydroxyindole; 3-amino-5-hydroxy-2,6-dimethoxypyridine; 5,6-dihydroxyindole; 7-hydroxyindole; 5-hydroxyindole; 2-bromo-4,5-methylenedioxyphenol; 6-hydroxyindole; 3-amino-2-methylamino-6-methoxypyridine; 2-amino-3-hydroxypyridine; 2,6-diaminopyridine; 5-(3,5-diamino-2-pyridyloxy)-1,3-dihydroxypentane; 3-(3,5-diamino-2-pyridyloxy)- 2-hydroxypropanol and 4-hydroxy-2,5,6-triaminopyrimidine, or combinations thereof.

3. A method according to claim 1, wherein said conditioner base in a.) i.) comprises a conditioning agent independently selected from the group consisting of dicetyl dimonium chloride/PG selected from the group consisting of
- poly(dimethyldiallylammonium chloride) ; Quaternium 57;
 poly(dipropyldiallylammonium chloride), poly(methyl-beta-propaniodiallylammonium choride), poly(diallylpiperidinium chloride), ly(vinylpyridinium chloride), quaternised poly(vinyl alcohol) and quaternised poly (dimethylaminoethylmethacrylate), as poly (N-vinylpyrrolidone), poly(dimethylaminoethylmethacrylate), poly(vinyl pyridine) and poly(ethyleneimine). and mixtures thereof; and wherein said conditioner base in a.) ii.) comprises a conditioning agent independently selected from the group consisting of dicetyl dimonium chloride/PG selected from the group consisting of
- poly(dimethyldiallylammonium chloride) ; Quaternium 57;
 poly(dipropyldiallylammonium chloride), poly(methyl-beta-propaniodiallylammonium choride), poly(diallylpiperidinium chloride), ly(vinylpyridinium chloride), quaternised poly(vinyl alcohol) and quaternised poly (dimethylaminoethylmethacrylate), as poly (N-vinylpyrrolidone), poly(dimethylaminoethylmethacrylate), poly(vinyl pyridine) and poly(ethyleneimine). and mixtures thereof.

4. A method according to claim 1, wherein said alkaline composition of a.) i.) prior to mixture with said acidic mixture of a.)ii.) has a pH of about 3 to about 5.

5. A method according to claim 1, wherein said acidic composition of a.) ii.) prior to mixture with said alkaline mixture of a.) i.) has a pH of about 8 to about 10.

6. A method according to claim 1 wherein said alkaline composition according to a.) i.) comprises:

A.) from about 0.05 % to about 1.0% of a dye intermediate;

B.) from about 0.1% to about 0.5% of a coupler; and

C.) from about 1 % to about 90 % of a conditioner base.

7. A method according to claim 1 wherein said acidic composition according to a.) ii.) comprises:

A.) from about 1 % to about 90 % of a conditioner base;

B.) from about 0.5% to about 2.5% of a volatile silicone; and

C.) from about 0.1 % to about 5 % of an oxidative compound.

8. A method according to claim 1 wherein said period for contacting said hair is between about 1 minute and 3 minutes.

9. A method according to claim 1 wherein said set time interval is between about 1 day and about 3 days.

10. A method according to claim 1 wherein said hair is highlighted.

11. A method according to claim 1 wherein said hair has wet combing tensile strength maintained.

12. A method according to claim 1 wherein said hair is not significantly damaged.

13. A method according to claim 1 wherein said hair is conditioned.

14. A method according to claim 1 wherein said hair is shampooed.

15. A method according to claim 1 wherein said oxidative compound is selected from the group consisting of hydrogen peroxide, urea peroxide, melamine peroxide, sodium perborate and sodium percarbonate.

16. A method according to claim 1 wherein the first composition comprises from about 35% to about 98.9% water.

17. A method according to claim 1, wherein the mixture of part A and part B has a neat viscosity of from about 500 cps to about 60,000 cps at 26.7.degree. C., as measured by a Brookfield RVTDCP with a spindle CP-41 at 1RPM for 3 minutes.

18. A method for maintaining hair color through the use of a permanent hair dye which comprises subjecting said hair to successive treatments, having a set time interval between each two consecutive such treatments, wherein each treatment comprises steps a.) and b.) below:

a.) contacting said hair, for a period of about 5 seconds to about 5 minutes with a recently made mixture of:

i.) an alkaline composition comprising a dye intermediate in a shampoo base or in a conditioner base; and

ii.) an acidic composition comprising an oxidating compound in a shampoo base or in a conditioner base;

b.) rinsing said mixture from said hair with water;

with the proviso that when a conditioner base is present in a.) i.) above, an independently selected conditioner base is also present in a.) ii.) above; and when a shampoo base is present in a.) i.) above, an independently selected shampoo base is also present in a.) ii.) above;

and wherein said number of treatments is at least about 2; and wherein said set time interval between each two consecutive treatments is between about 8 hours and 30 days.

19. A method according to claim 1 wherein said dye intermediate is present at about 0.1% to about 1%.

20. A method according to claim 1 wherein said oxidative compound is present at about -2 % to about 5 %.

21. A dispenser for dispensing simultaneously composition a.) i.) and composition a.) ii.) according to claim 1, which comprises:

A.) a means for holding composition a.) i.) and composition a.) ii.) in physically separate locations;

B.) a means for protecting composition a.) i.) and composition a.) ii.) from air prior to dispensing;

C.) a means for dispensing composition a.) i.) and composition a.) ii.) in equal amounts and in proximity to each other.

22. A method according to claim 1 wherein composition a.) i.) and composition a.) ii.) are mixed by hand.

23. A method according to claim 1 which comprises rinsing said mixture of composition a.) i.) and composition a.) ii.) from said hair with water in a shower.

24. A composition for permanently dying hair which comprises a mixture of
Part A

a) about 0.1% to about 99.9% of a conditioning base, which comprises about 0.5% to about 5% of a quaternary nitrogen-containing conditioning agent based upon the total composition;

b) about 0.5 to about 10 % of a long chain fatty alcohol having about 11 to about 18 carbons in said long chain,

c) about 0.1% to about 1% of a dye; and

d) about 1% to about 4% of a volatile silicone;

Part B

- a) about 1 to about 5% of a conditioning base;
- b) about 1 to about 5% of an oxidative compound.

5 25. A composition according to claim 24 which further comprises in part A, part B, or part A and part B, a thickener which is a high molecular weight fatty alcohol.

10 26. A composition according to claim 25 wherein said high molecular weight fatty alcohol is selected from the group consisting of cetyl alcohol and stearyl alcohol.

27. A composition for permanently dying hair which comprises a mixture of Part A

- 15
- a) about 0.1% to about 99.9% of a shampoo base; and
 - b) about 0.1% to about 1% of a dye;

Part B

- 20
- a) about 1 to about 5% of a shampoo base;
 - b) about 1 to about 5% of an oxidative compound.

25 28. A composition according to claim 27 wherein said shampoo base in part A comprises about 5 to about 50%, based on the total part A composition, of an anionic surfactant, an amphoteric surfactant, or a mixture of an anionic surfactant and an amphoteric surfactant.